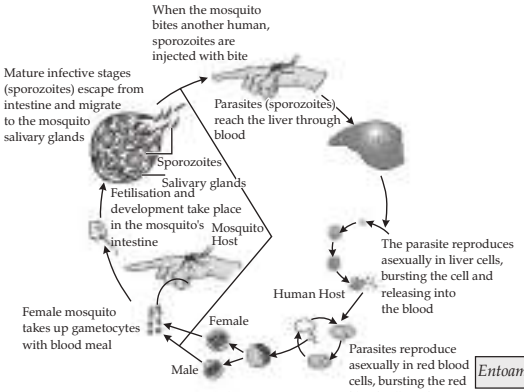
MIND MAP : LEARNING MADE SIMPLE

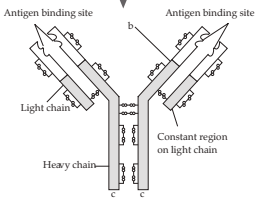
CHAPTER - 8

Human Health and Diseases

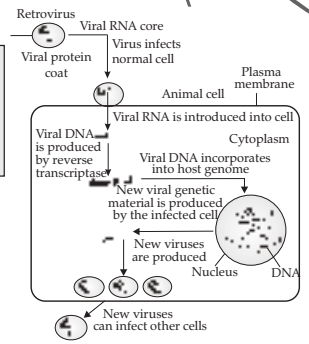
- **Health**
  - State of complete physical, mental and social well-being
- **Cancer**
  - Types
    - Benign tumor
    - Malignant
    - Metastasis
  - Detection & Diagnosis
    - Biopsy
    - Radiography
    - CT
    - MRI
  - Treatment
    - Radiation therapy
    - Chemotherapy
    - Immunotherapy
- **Lymphoid organs**
  - Primary
    - Bone marrow
    - Thymus
  - Secondary
    - Spleen
    - Lymph node
    - Tonsils
- **Diseases**
  - Typhoid — *Salmonella typhi*
  - Pneumonia — *Streptococcus Pneumonia*
  - Filariasis — *Wuchereria*
  - Amoebiasis — *Entoamoeba histolytica*
  - Common cold — *Rhino virus*
  - Malaria — *Plasmodium*
  - Acariasis — *Ascaris*



- **Immunity**
  - Pathogens
    - Innate (Non-specific)
      - Types of barriers
        - Physical
        - Physiological
        - Cellular
        - Cytokine
    - Acquired (Specific)
      - Produces primary & Secondary response
        - T Lymphocytes — Help B Cells
        - B Lymphocytes — Produces Antibodies
      - 2 Types
        - Active Own antibodies
          - Natural: exposure to infectious agent
          - Artificial: immunization
        - Ready made antibodies (Passive)
          - Natural: maternal antibodies *e.g.*, colostrum
          - Artificial: antibodies from other sources like anti-tetanus serum



- **Allergy**
  - Exaggerated response of the immune system to allergens.
  - Antibodies IgE type.
  - Anti-histamine, adrenaline and steroidsquickly reduce the symptoms.
- **Auto Immunity**
  - Memory based acquired immunity, which is able to distinguish foreign molecules or cells (pathogen) from self-cells.E.g. Rheumatoid arthritis, Multiple sclerosis
- **AIDS**
  - Caused by HIV



Life cycle of HIV

- **Drugs and Alcohol abuse**
  - Drugs
    - Opioids- *Papavarsomniferum*
    - Coca alkaloid- *Erythroxylum coca.*
    - Cannabinoids- *Cannabis sativa*
  - Symptoms and signs
    - Drop in academic performance
    - Lack of interest in personal hygiene.
    - Withdrawal and isolation.
    - Depression, aggressive and rebellious behavior.
    - Deteriorating relationship between family and friends.
    - Loss of interest in hobbies.
  - Causes
    - Curiosity and Experimentation.
    - Need for adventure and excitement.
    - Escape from facing problems.
    - Stress from pressure to excel in academics or examination.
    - Television, movies, newspapers, internet
    - Unsupportive family structures and Peer pressure.
  - Prevention Control
    - Avoid undue peer pressure.
    - Education and counselling.
    - Seeking help from parents and peers.
    - Looking for danger signs.
    - Seeking professional and medical help.

Get More Learning Materials Here : CLICK HERE www.studentbro.in